

Environmental Aspects and Impacts Worksheet (page 1 of 2)

Process _____

Activity _____

Frequency x (Severity + Probability + Legal Risks) = Signif. Score

ASPECT	Yes	No	If "yes" describe; include additional details in "Remarks"	ENVIRONMENTAL IMPACTS (-)									Frequency **				Impact Severity			Impact Probability			Legal Risks			Significance Score
				AI	GW	SW	SO	SP	HA	CR	QL	c	fr	inf	occ	l	m	h	l	m	h	l	m	h		
Air Emissions																										
Fugitive emissions																										
Stack emissions																										
Other																										
Hazardous Waste																										
Disposal																										
Recycle/reuse																										
Non-Hazardous Waste																										
Disposal																										
Recycle/reuse																										
Unintended releases / spills																										
To air																										
To water																										
To soil																										
Water Pollution																										
Point																										
Non-point																										
Other																										
Energy Consumed/Conserved																										
Materials Consumed/Conserved																										
Affects a Natural Resource																										
Ground disturbance																										
Hydrological alteration																										
Vegetation alteration																										

AI = Air Pollution GW = Groundwater Contamination SW = Surface Water Contamination SO = Soil Contamination SP = Species Degradation

HA = Habitat Degradation CR = Cultural Resource Degradation QL = Quality of Life Degradation

- means a negative impact; - • means the most significant

** c = continuous (daily)

fr = frequent (weekly)

inf = infrequent (monthly)

occ = occasional (yearly)

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Process _____ Activity _____

Frequency x (Severity + Probability + Legal Risks) = Signif. Score

ASPECT	Yes	No	If "yes" describe; include additional details in "Remarks"	ENVIRONMENTAL IMPACTS (-)								Frequency **				Impact Severity			Impact Probability			Legal Risks			Signifi- cance Score
				AI	GW	SW	SO	SP	HA	CR	QL	c	fr	inf	occ	l	m	h	l	m	h	l	m	h	
Affects a Cultural Resource																									
Historic property																									
Archeological site																									
Traditional cultural resource																									
Nuisance																									
Noise																									
Odor																									
Other																									

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- means a negative impact; - • means the most significant ** c = continuous (daily) fr = frequent (weekly) inf = infrequent (monthly) occ = occasional (yearly)

DETERMINING THE IMPACT SIGNIFICANCE SCORE

1. Determine frequency of impact:

1 = continuous
0.8 = frequent
0.5 = infrequent
0.2 = occasional

2. Determine impact severity:

5 = high (serious; likely to result in severe/widespread damage to human health and the environment)
4 or 3 = medium (moderate damage to human health and the environment)
2 or 1 = low (minor damage to human health and the environment; little or no impact)

3. Determine impact probability:

5 = high probability
4 or 3 = medium probability
2 or 1 = low probability

4. Determine legal risk:

5 = high risk (potential NOV, permit violation)
4 or 3 = medium risk (regulatory concerns/visibility, etc.)
2 or 1 = low risk

5. Calculate the Impact Significance Score:

Frequency x (Severity + Probability + Legal Risk) = Impact Significance

Example:

Assume you have completed the Severity, Probability and Legal Risk analysis and have determined that an impact has the following values:

Severity = medium (4)
Probability = medium (3)
Legal Risk = low (1)

The frequency of the impact is determined to be "frequent" (0.8).

Impact Significance = 0.8 x (4 + 3 + 1) = 6.4